

Appn. No. 10/715,803
Docket No. GP-303124/GM2-0075

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) A self locking apparatus comprising:
 - a housing;
 - a load initiating element located within the housing;
 - a spring located adjacent to the load initiating element, and configured to expand in compression against the housing in response to a compressive load; and
 - a compression member slideably disposed within the housing and configured to compress the spring from a side opposite the load initiating element;
wherein the load initiating element, spring, and compression member are slideable within the housing in a first axial direction and in a second opposite axial direction in response to an axial load on the load initiating element, and lockable within the housing in the second axial direction in response to an axial load on the compression member in the second axial direction.
wherein the load initiating element and spring are slideable within the housing until the spring is loaded into a self locking mode.
2. (original) The self locking apparatus of claim 1, wherein the housing is an outer tube.
3. (currently amended) The self locking apparatus of claim 2, wherein the compression member comprises an inner tube [[is]] slideably positioned within the outer tube and is configured to be able to provide a compression force to the spring from a side opposite of the load initiating element.

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4. (currently amended) The self locking apparatus of claim 3 further comprising: a pin rigidly attached to the inner tube and slideably attached to the spring; and a piston slideably attached to the pin via the load initiating element; and wherein the load initiating element is resistive to movement relative to a longitudinal axis of the housing; and
wherein the piston, load initiating element, and pin are is configured to position slide the load initiating element, spring and inner tube within the outer tube in the first and second axial directions in response to an axial load on the piston sufficient to overcome the resistance to movement without loading the spring into a self locking mode.

5-6. (canceled)

7. (original) The self locking apparatus of claim 1, wherein the spring is a wave spring.

8. (original) The self locking apparatus of claim 1, wherein the spring is a conic spring.

9. (original) The self locking apparatus of claim 8, wherein the conic spring is outwardly biased.

10. (original) The self locking apparatus of claim 1, wherein the spring comprises:

an initiator spring; and

a plurality of additional springs.

11. (original) The self locking apparatus of claim 10, wherein the plurality of additional springs comprise:

at least one intermediate load conic spring; and

at least one primary load conic spring.

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12. (original) The self locking apparatus of claim 3, wherein the inner tube is in operable communication with a motor vehicle bumper, and the outer tube is in operable communication with a motor vehicle body.

13-22. (canceled)

23. (new) The self locking apparatus of Claim 1, wherein:
the load initiating element is resistive to movement relative to a longitudinal axis of the housing;

the load initiating element, spring, and compression member are slideable within the housing in a first axial direction and in a second opposite axial direction in response to an axial load on the load initiating element sufficient to overcome the resistance to movement;

the load initiating element, spring, and compression member are slideable within the housing in the first axial direction in response to an axial load on the compression member in the first axial direction sufficient to overcome the resistance to movement; and

the load initiating element, spring, and compression member are lockable within the housing in the second axial direction in response to an axial load on the compression member in the second axial direction sufficient to compress the spring against the housing, prior to the axial load overcoming the resistance to movement, with a locking force greater than the axial load, thereby defining a self locking mode.

24. (new) A self locking apparatus comprising:
a housing;
a load initiating element located within the housing and having a resistance to movement relative to a longitudinal axis of the housing;
a compression member slideably disposed within the housing relative to the longitudinal axis;
a spring disposed between the load initiating element and the compression

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member, and configured to expand in compression against the housing in response to a compressive load;

wherein the load initiating element, spring, and compression member are axially slideable within the housing in response to an axial load on the load initiating element sufficient to overcome the resistance to movement;

wherein the load initiating element, spring, and compression member are slideable within the housing in the first axial direction and lockable within the housing in the second axial direction in response to an axial load on the compression member in the first and second axial directions, respectively.

25. (new) The self locking apparatus of Claim 24, wherein the compression member is in operable communication with a motor vehicle bumper, and the housing is in operable communication with a motor vehicle body.